

## **ELECTRICIAN III**

### **PURPOSE AND NATURE OF WORK**

This is extremely skilled electrical and supervisory work involved in the analysis of complex electrical systems. Work may also involve routine electrical work at or below the journeyman level as needed. Incumbents work with high voltage and around other hazardous conditions. They are also subject to working overtime or being on 24-hour call when necessary. Supervision is exercised over lower level Electricians and other subordinates.

The work of this class differs from that of Electrician II by the advanced knowledge and training required, the supervision of subordinates, and additional responsibilities.

**ILLUSTRATIVE EXAMPLES OF WORK** (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Maintains control centers at both power plants using schematics and test equipment to locate problems; performs proper repairs on control equipment. Inspects, locates problems, and maintains electrical control systems such as boiler burner management system, turbine zero speed, and turning gear electrical controls and alarm systems. Renders technical assistance to superiors on additions, modifications, or substitutions of electrical devices. Participates in the maintenance of generators and generator excitation equipment; occasionally directs subordinate personnel helping in this work. Performs periodic vibration analysis and records the information for all rotating equipment. Keeps appropriate records on equipment.

Performs related work as required.

### **NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS**

Thorough knowledge of the standard practices, materials, tools, and equipment of the electrical trade.

Thorough knowledge of the electrical control systems and associated mechanical equipment at the power plants and other assigned work sites.

Thorough knowledge of the occupational hazards and safety precautions of the trade.

Ability to understand and follow moderately complex oral and written instructions, and to read and interpret blueprints, sketches, and schematics.

Ability to locate and repair defects in the control systems, related equipment, and devices.

Ability to make fast and accurate analyses and to take necessary corrective action independently within prescribed standards.

Ability to maintain records and evaluate information.

Ability and willingness to work extra hours as required.

Ability to establish and maintain effective relationships with superiors and other employees.

### **DESIRABLE TRAINING AND EXPERIENCE**

Graduation from high school, completion of Vocational Technical School course work in electricity or electronics, and considerable experience working at the journeyman level with various electrical control systems in a power plant or related industrial facility; or any equivalent combination of training and experience.